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Handover method in mobile communication system - by determining at least one handover criterion depending on error correction of radio connection for connection

Patent Assignee: NOKIA TELECOM OY (OYNO); NOKIA NETWORKS OY (OYNO)

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Number of Countries: 083 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9837719	A1	19980827	WO 98FI123	A	19980211	199840 B
FI 9700683	A	19980819	FI 97683	A	19970218	199847
ZA 9801149	A	19981028	ZA 981149	A	19980212	199848
AU 9859903	A	19980909	AU 9859903	A	19980211	199905
EP 962112	A1	19991208	EP 98903043	A	19980211	200002
			WO 98FI123	A	19980211	
FI 104682	B1	20000414	FI 97683	A	19970218	200025
CN 1247681	A	20000315	CN 98802466	A	19980211	200031
JP 2001511988	W	20010814	JP 98536295	A	19980211	200154
			WO 98FI123	A	19980211	

Priority Applications (No Type Date): FI 97683 A 19970218

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9837719	A1	E	26	H04Q-007/38	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

ZA 9801149	A	26	H04M-000/00	
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AU 9859903	A			Based on patent WO 9837719
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EP 962112	A1	E		Based on patent WO 9837719
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

FI 104682	B1		H04Q-007/38	Previous Publ. patent FI 9700683
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CN 1247681	A		H04Q-007/38	
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JP 2001511988	W	28	H04Q-007/22	Based on patent WO 9837719
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Abstract (Basic): WO 9837719 A

The handover method involves measuring the signal level and/or quality of base stations (BTS) in a mobile station (MS). The signal quality and level of the mobile station is measured at the base station. The measurement results thus obtained and other variables of the connection are compared with handover criteria. A handover from a source cell to a target cell is performed when the handover criteria are met, by determining at least one handover criterion depending on the error correction of a radio connection for the connection.

At least one error correction possible for the connection in a potential target cell of the handover is determined. The handover criterion is set on the basis of the error correction of a source cell

base station (BTS1) and the error correction of a determined potential target cell base station (BTS2). The error correction of a transferred connection is set as the error correction of the target cell base station in the target cell.

ADVANTAGE - Allows flexible handover depending on error correction. Avoids unnecessary handovers. Allows optimal handover even if mobile stations error correction is worse than normal. Allows quality to remain good during handover. Reduces probability of call being lost on radio connection implemented with weaker error correction than normal.

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4/3,AB/2 (Item 1 from file: 345)
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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Basic Patent (No,Kind,Date): FI 9700683 A0 19970218 <No. of Patents: 009>

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(FI); AALTO RISTO (FI)

IPC: *H04Q;

Language of Document: Finnish; Swedish

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Patent No	Kind	Date	Applic No	Kind	Date	
AU 9859903	A1	19980909	AU 9859903	A	19980211	
CN 1247681	T	20000315	CN 98802466	A	19980211	
EP 962112	A1	19991208	EP 98903043	A	19980211	
FI 9700683	A	19980819	FI 97683	A	19970218	
FI 9700683	A0	19970218	FI 97683	A	19970218	(BASIC)
FI 104682	B1	20000414	FI 97683	A	19970218	
JP 2001511988	T2	20010814	JP 98536295	A	19980211	
WO 9837719	A1	19980827	WO 98FI123	A	19980211	
ZA 9801149	A	19980820	ZA 981149	A	19980212	

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FI 97683 A 19970218
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